

FOS CDR RID Report

Date Last Modified 1/18/96

Originator Spaulding Omar / Hwang Paul

Phone No 202-358-0777

Organization NASA HQ, Code YD

E Mail Address ospaulding@mtpe.hq.nasa.gov

Document CDR

RID ID	CDR	44
Review	FOS	
Originator Ref	HQ-OYS-03	
Priority	2	

Section N/A

Page N/A

Figure Table N/A

Category Name Requirements

Actionee ECS

Sub Category

Subject AM-1 Backup Design

Description of Problem or Suggestion:

The design contains very little information on the AM-1 backup capability and what was presented using Wallops Flight Facility and the Deep Space Network would not meet operational needs do to limitations on data capture times and number of seen orbits at these facilities.

Originator's Recommendation

The prime contractor needs to understand where NASA is going in the area of AM-1 backup and what the agency planning & direction are for ground stations. The following list are current agreements and activities which are on going.

Code Y and Code O have written an MRR stating that Code O would provide the AM-1 backup capability.

HQ Codes Y, O and I are working on an agreement to develop the AM-1 capability at Svalbard Norway.

GSFC has written a DMR addressing the AM-1 capability.

GSFC Code 800 is implementing the AM-1 capability at Svalbard Norway

The prime contractor needs to understand the above agreements and then reflect this understanding into the current design.

GSFC Response by:

GSFC Response Date

HAIS Response by: Andy Miller

HAIS Schedule

HAIS R. E. Scott Carter

HAIS Response Date 11/10/95

The current FOS baseline identifies utilization of TDRSS as the primary contact support station for AM-1. Wallops Flight Facility (WFF), the Deep Space Network (DSN) and the Ground Network (GN) are included in the baseline as contingency/backup stations for AM-1 support. Future changes in the EOS Ground System will require the FOS to obtain contact support from additional ground stations. The FOS is aware of the need for X-band backup ground station support for AM-1, but plans to work the associated requirements as part of the EOSDIS Reshape effort. This will facilitate the development of one solution for both the X-band backup ground station and EOSDIS X/S-band primary ground station interfaces. As indicated in the above originators recommendations, activities and agreements associated with that effort are on going. The ground system architecture largely isolates FOS from changes in SN/ground station support. However, there is still an impact to FOS for changes in SN/ground station support which are beyond the current baseline. The design of the FOS does not preclude migration to utilization of additional ground stations in support of such future requirements.

Status Closed

Date Closed 1/17/96

Sponsor Johns

***** Attachment if any *****